

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN021523\  
 Data File : VN076694.D  
 Acq On : 15 Feb 2023 18:52  
 Operator : JC\MD  
 Sample : 01547-03 10X  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Feb 16 04:35:32 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N021523W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Feb 16 01:08:46 2023  
 Response via : Initial Calibration

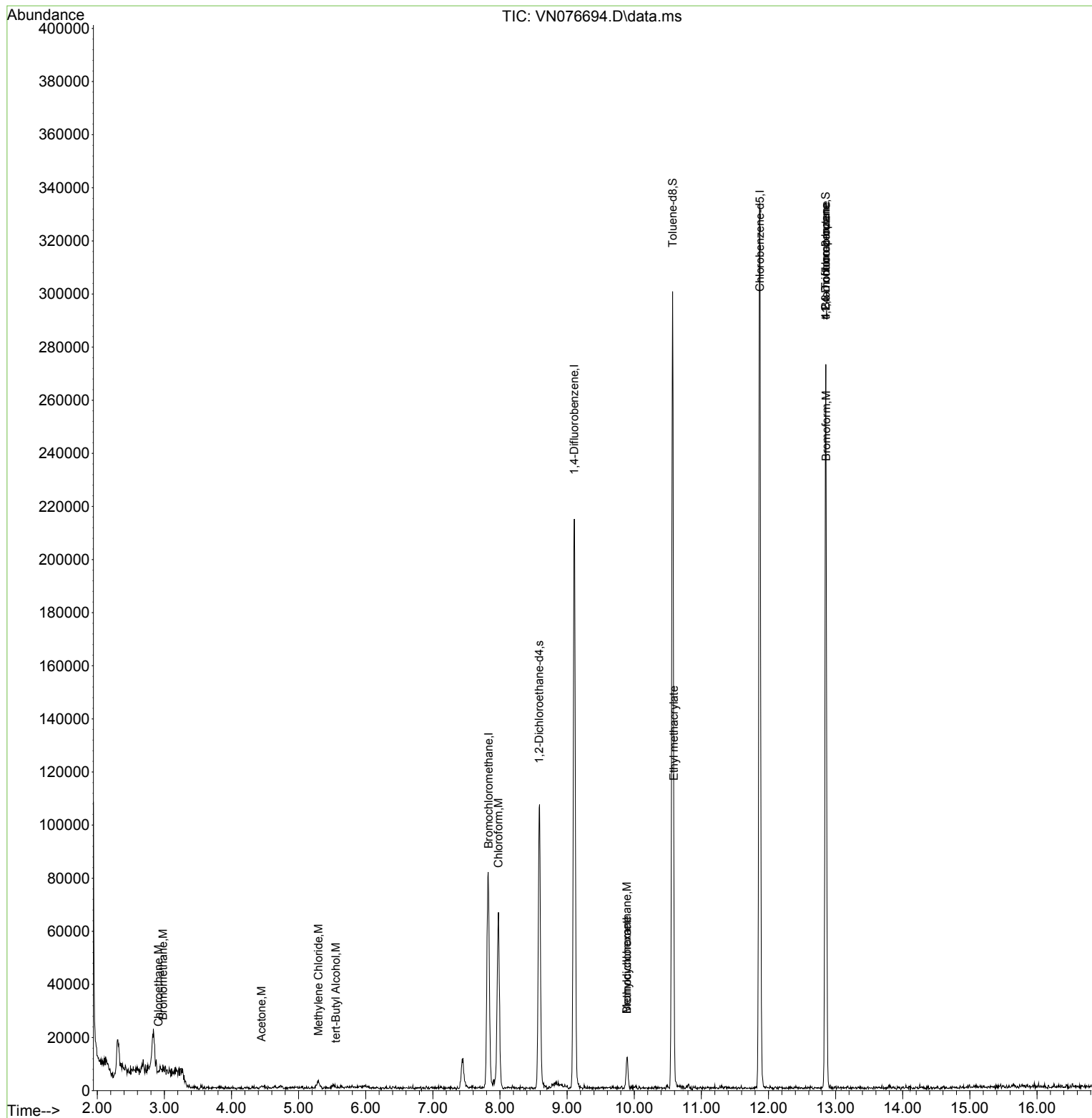
| Compound                    | R.T.   | QIon  | Response | Conc     | Units       | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|-------------|----------|
| -----                       |        |       |          |          |             |          |
| Internal Standards          |        |       |          |          |             |          |
| 1) Bromochloromethane       | 7.830  | 128   | 26716    | 30.000   | ug/l        | 0.01     |
| 28) 1,4-Difluorobenzene     | 9.107  | 114   | 176500   | 30.000   | ug/l        | 0.00     |
| 57) Chlorobenzene-d5        | 11.871 | 117   | 190037   | 30.000   | ug/l        | 0.00     |
| System Monitoring Compounds |        |       |          |          |             |          |
| 27) 1,2-Dichloroethane-d4   | 8.583  | 65    | 81217    | 33.238   | ug/l        | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | = 110.800%# |          |
| 60) 4-Bromofluorobenzene    | 12.854 | 95    | 83157    | 24.739   | ug/l        | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | = 82.467%   |          |
| 63) Toluene-d8              | 10.571 | 98    | 201514   | 30.274   | ug/l        | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | = 100.900%  |          |
| Target Compounds            |        |       |          |          |             |          |
|                             |        |       |          |          | Qvalue      |          |
| 5) Bromomethane             | 2.978  | 94    | 803      | 0.314    | ug/l        | 92       |
| 6) Chloroethane             | 2.913  | 64    | 603      | 0.251    | ug/l        | 95       |
| 15) Acetone                 | 4.448  | 58    | 114      | 0.212    | ug/l #      | 1        |
| 18) Methylene Chloride      | 5.295  | 84    | 1383     | 0.416    | ug/l #      | 85       |
| 23) tert-Butyl Alcohol      | 5.554  | 59    | 204      | 0.426    | ug/l #      | 100      |
| 25) Chloroform              | 7.978  | 83    | 58045    | 10.140   | ug/l        | 97       |
| 38) Methylcyclohexane       | 9.889  | 83    | 5283     | 1.043    | ug/l #      | 18       |
| 41) Bromodichloromethane    | 9.889  | 83    | 5283     | 1.236    | ug/l #      | 99       |
| 51) Ethyl methacrylate      | 10.589 | 69    | 1001     | 0.223    | ug/l #      | 48       |
| 56) Bromoform               | 12.860 | 173   | 1063     | 0.485    | ug/l #      | 1        |
| 72) 1,2,3-Trichloropropane  | 12.854 | 75    | 48427    | 12.106   | ug/l        | 1        |
| 77) t-1,4-Dichloro-2-butene | 12.854 | 75    | 48427    | 37.678   | ug/l #      | 9        |
| -----                       |        |       |          |          |             |          |

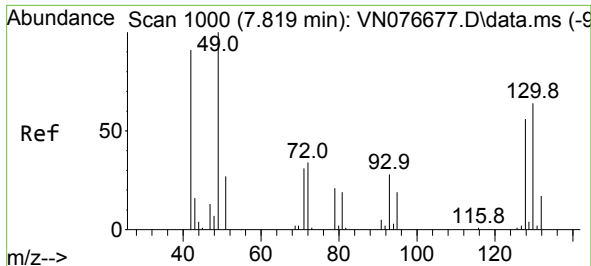
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

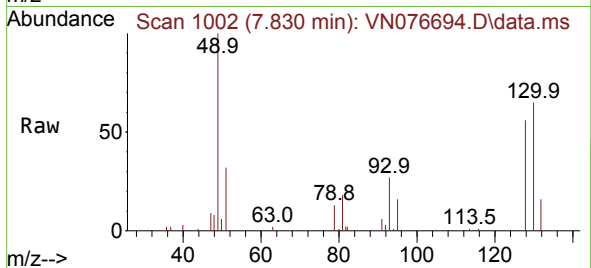
Quant Time: Feb 16 04:35:32 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N021523W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Thu Feb 16 01:08:46 2023  
Response via : Initial Calibration



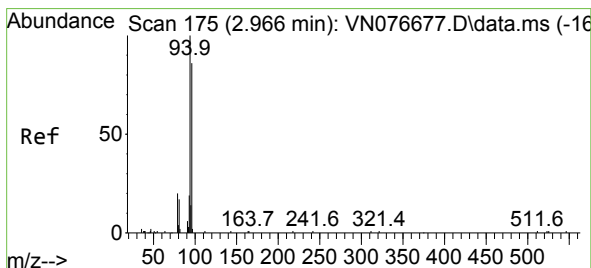
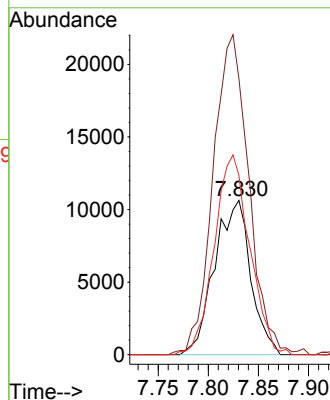
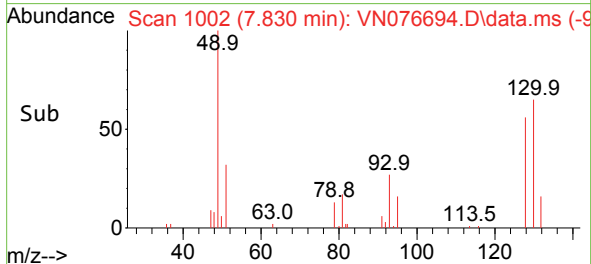


#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.830 min Scan# 10  
Delta R.T. 0.011 min  
Lab File: VN076694.D  
Acq: 15 Feb 2023 18:52

Instrument :  
MSVOA\_N  
ClientSampleId :

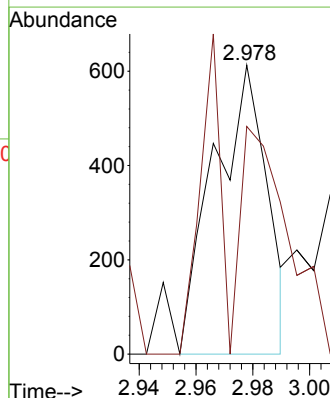
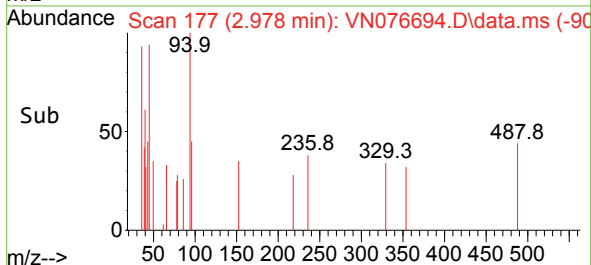
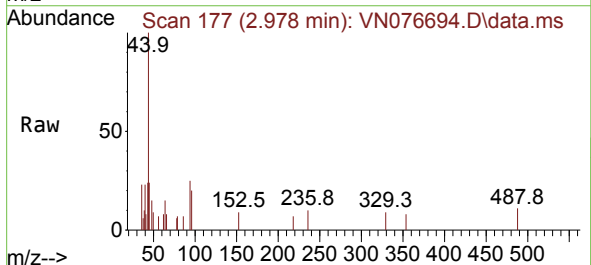


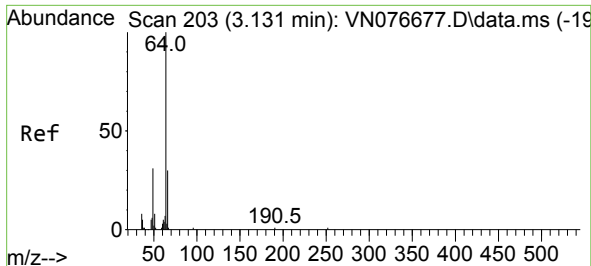
Tgt Ion:128 Resp: 26716  
Ion Ratio Lower Upper  
128 100  
49 198.9 0.0 461.8  
130 126.7 0.0 295.3



#5  
Bromomethane  
Concen: 0.314 ug/l  
RT: 2.978 min Scan# 177  
Delta R.T. 0.012 min  
Lab File: VN076694.D  
Acq: 15 Feb 2023 18:52

Tgt Ion: 94 Resp: 803  
Ion Ratio Lower Upper  
94 100  
96 78.8 68.6 103.0

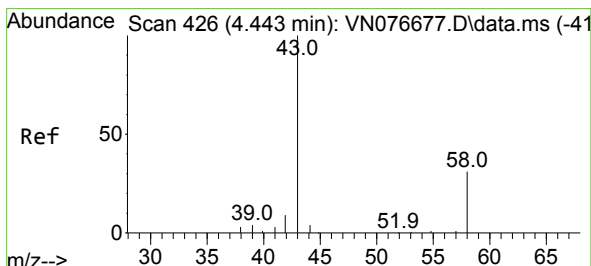
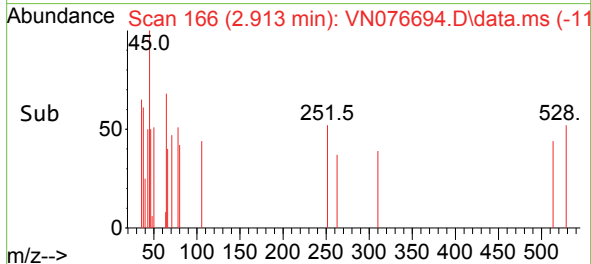
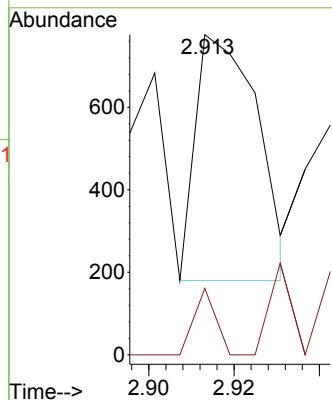
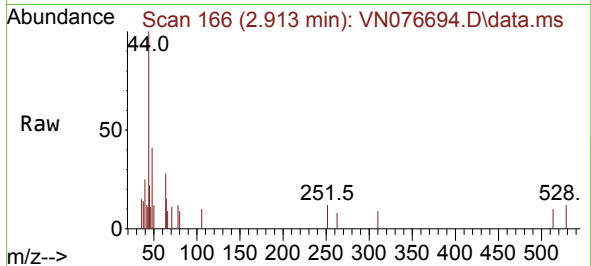




#6  
Chloroethane  
Concen: 0.251 ug/l  
RT: 2.913 min Scan# 11  
Delta R.T. -0.218 min  
Lab File: VN076694.D  
Acq: 15 Feb 2023 18:52

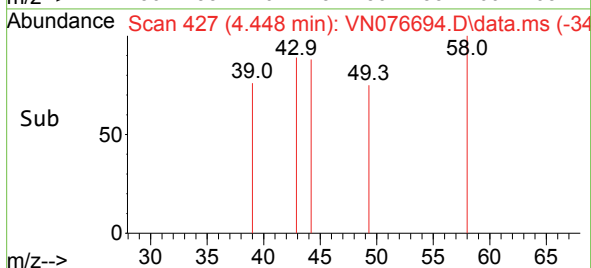
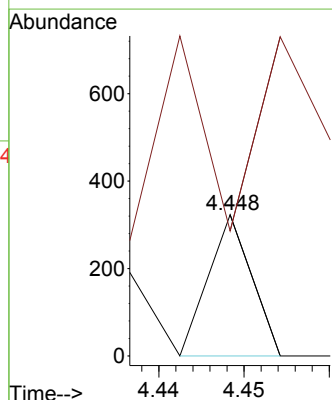
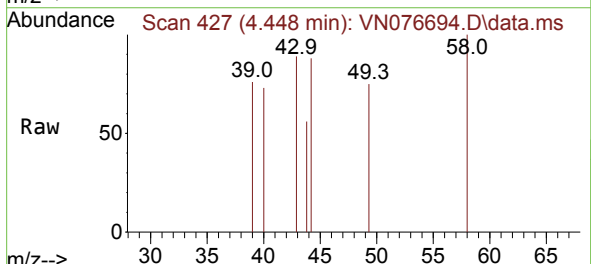
Instrument :  
MSVOA\_N  
ClientSampleId :

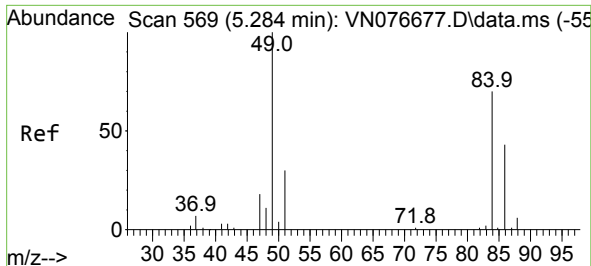
Tgt Ion: 64 Resp: 603  
Ion Ratio Lower Upper  
64 100  
66 27.0 23.8 35.6



#15  
Acetone  
Concen: 0.212 ug/l  
RT: 4.448 min Scan# 427  
Delta R.T. 0.006 min  
Lab File: VN076694.D  
Acq: 15 Feb 2023 18:52

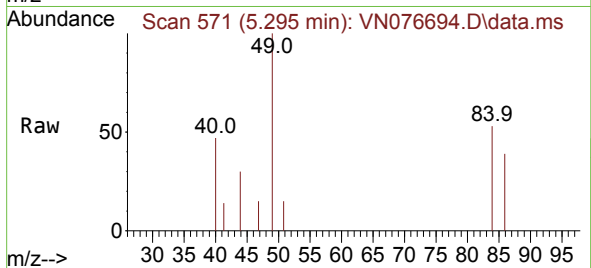
Tgt Ion: 58 Resp: 114  
Ion Ratio Lower Upper  
58 100  
43 0.0 255.4 383.0#



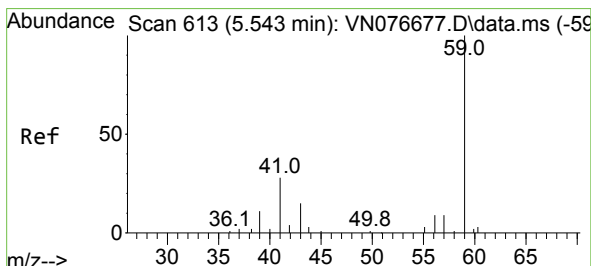
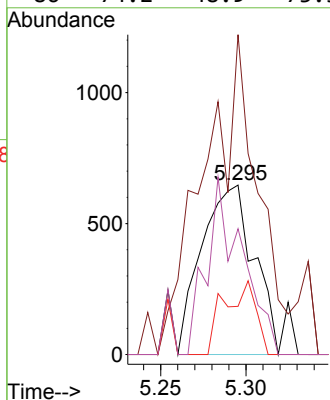
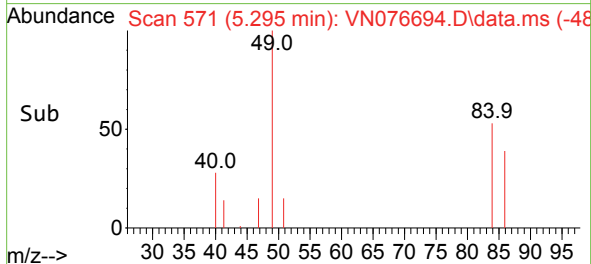


#18  
Methylene Chloride  
Concen: 0.416 ug/l  
RT: 5.295 min Scan# 51  
Delta R.T. 0.012 min  
Lab File: VN076694.D  
Acq: 15 Feb 2023 18:52

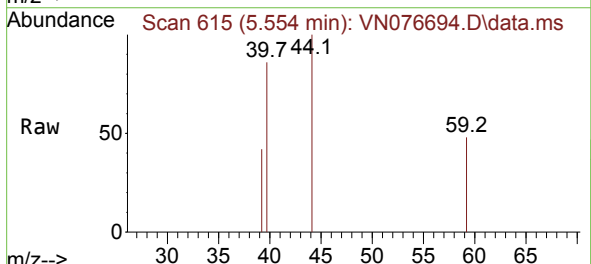
Instrument :  
MSVOA\_N  
ClientSampleId :



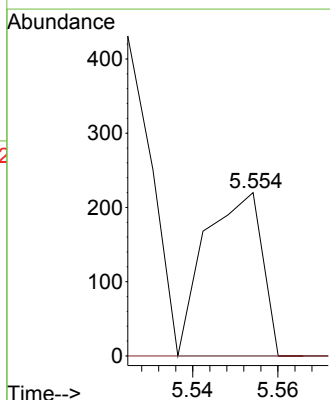
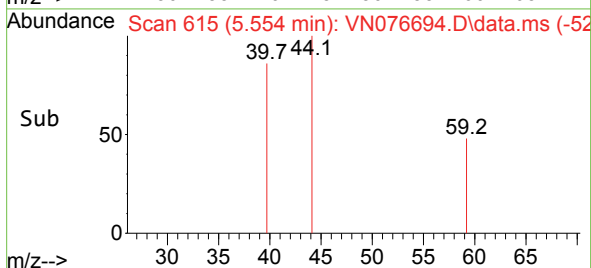
Tgt Ion: 84 Resp: 1383  
Ion Ratio Lower Upper  
84 100  
49 156.3 113.8 170.6  
51 28.4 34.2 51.4#  
86 74.2 48.9 73.3#

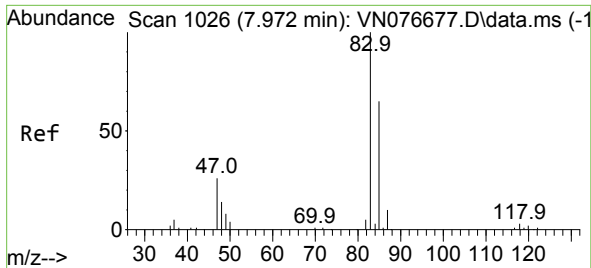


#23  
tert-Butyl Alcohol  
Concen: 0.426 ug/l  
RT: 5.554 min Scan# 615  
Delta R.T. 0.012 min  
Lab File: VN076694.D  
Acq: 15 Feb 2023 18:52



Tgt Ion: 59 Resp: 204  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.2 0.2#





#25

Chloroform

Concen: 10.140 ug/l

RT: 7.978 min Scan# 110

Delta R.T. 0.006 min

Lab File: VN076694.D

Acq: 15 Feb 2023 18:52

Instrument :

MSVOA\_N

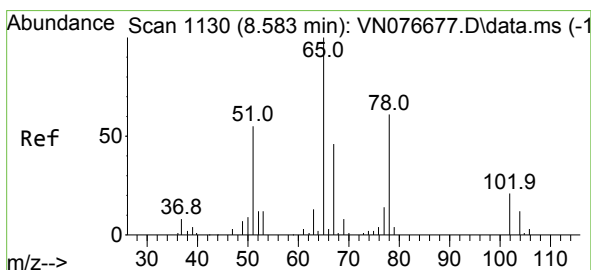
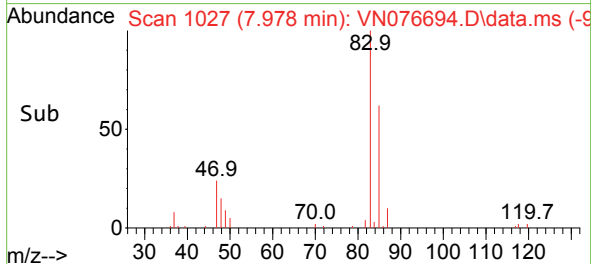
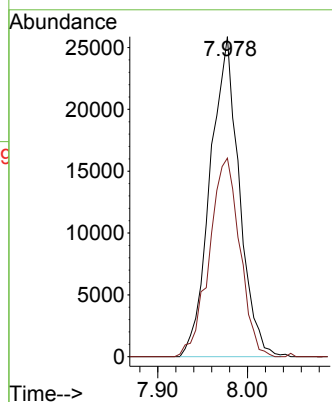
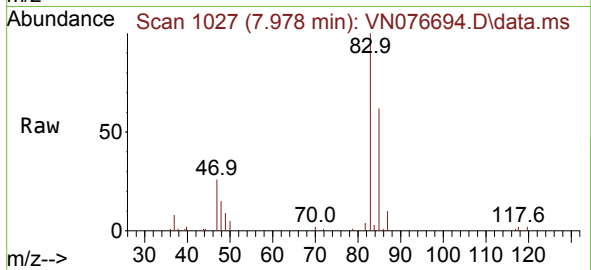
ClientSampleId :

Tgt Ion: 83 Resp: 58045

Ion Ratio Lower Upper

83 100

85 62.1 51.8 77.6



#27

1,2-Dichloroethane-d4

Concen: 33.238 ug/l

RT: 8.583 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN076694.D

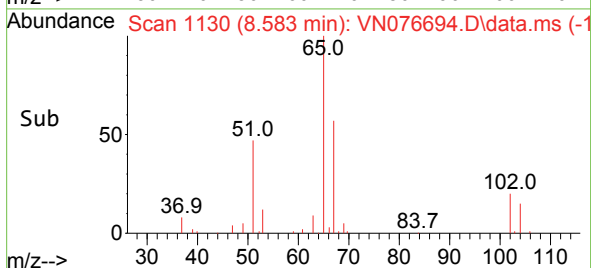
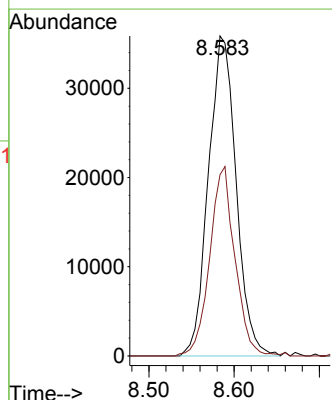
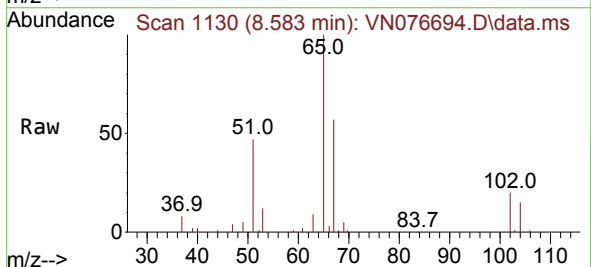
Acq: 15 Feb 2023 18:52

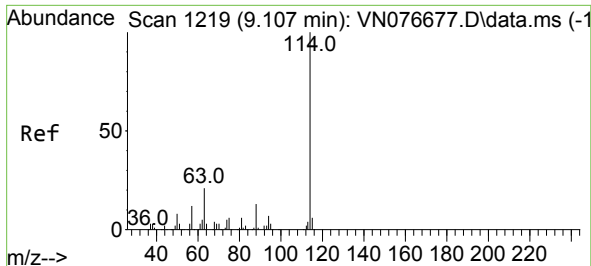
Tgt Ion: 65 Resp: 81217

Ion Ratio Lower Upper

65 100

67 53.8 40.9 61.3





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.107 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN076694.D

Acq: 15 Feb 2023 18:52

Instrument :

MSVOA\_N

ClientSampleId :

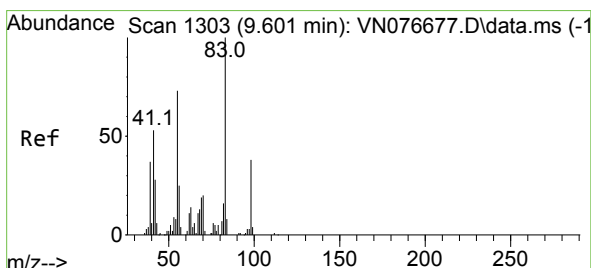
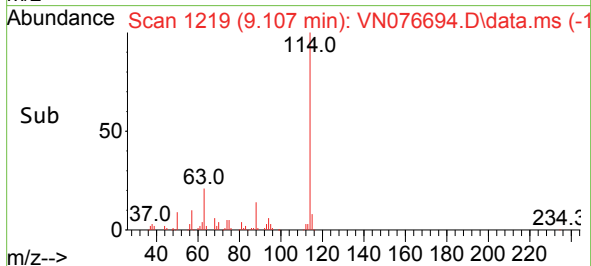
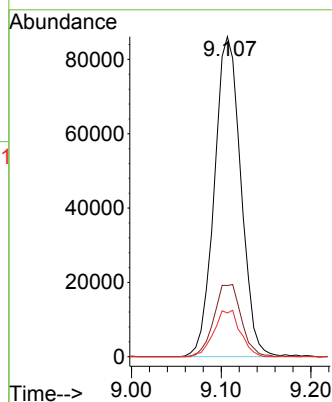
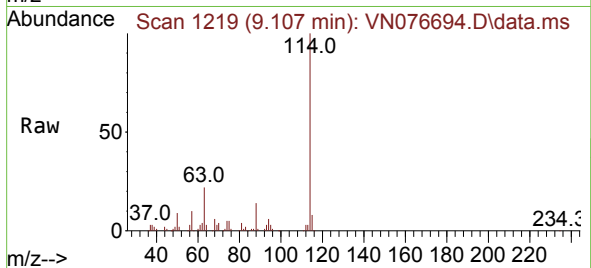
Tgt Ion:114 Resp: 176500

Ion Ratio Lower Upper

114 100

63 23.3 17.0 25.4

88 14.5 11.6 17.4



#38

Methylcyclohexane

Concen: 1.043 ug/l

RT: 9.889 min Scan# 1352

Delta R.T. 0.288 min

Lab File: VN076694.D

Acq: 15 Feb 2023 18:52

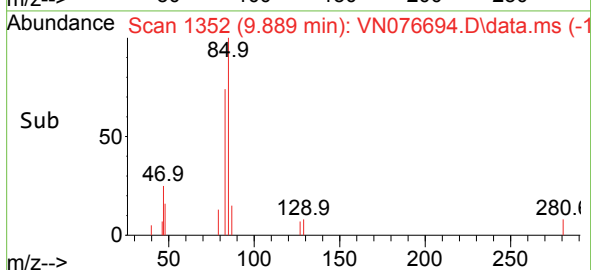
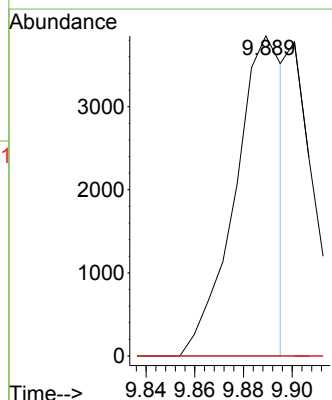
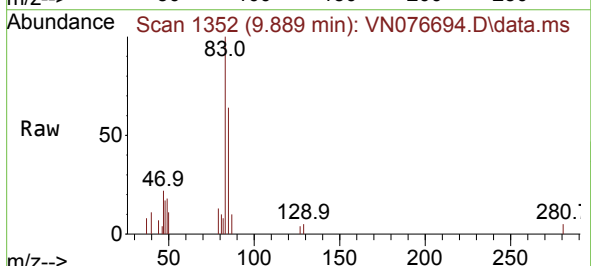
Tgt Ion: 83 Resp: 5283

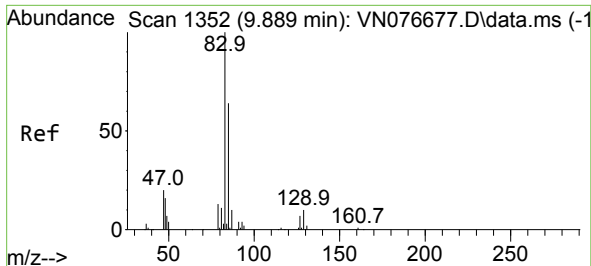
Ion Ratio Lower Upper

83 100

55 0.0 37.6 112.9#

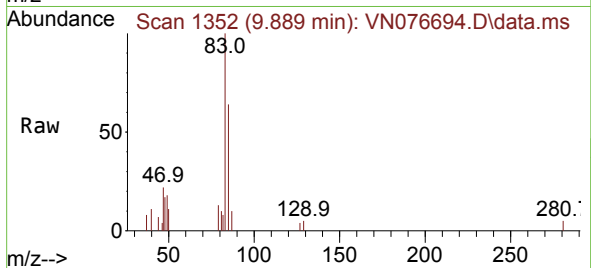
98 0.0 24.1 72.4#



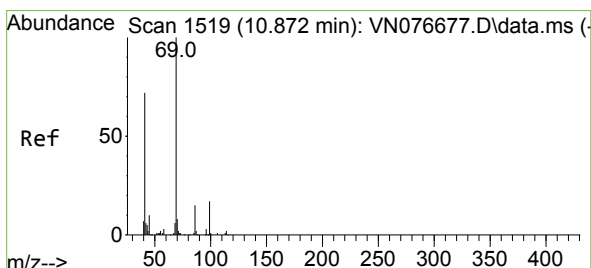
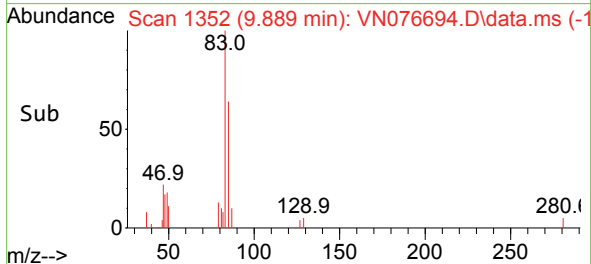
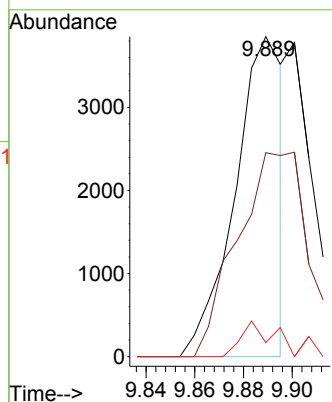


#41  
Bromodichloromethane  
Concen: 1.236 ug/l  
RT: 9.889 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VN076694.D  
Acq: 15 Feb 2023 18:52

Instrument :  
MSVOA\_N  
ClientSampleId :

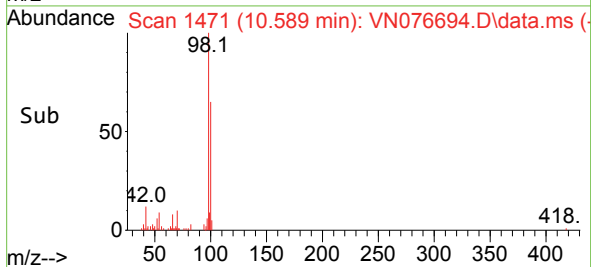
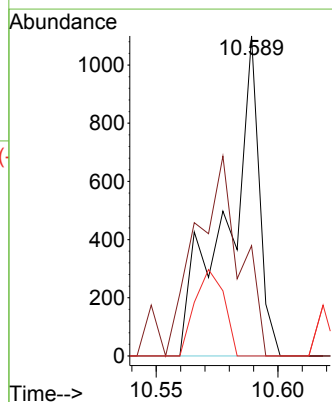
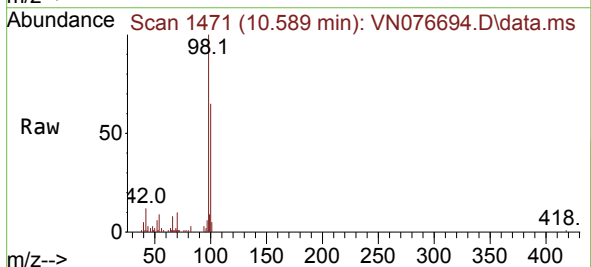


Tgt Ion: 83 Resp: 5283  
Ion Ratio Lower Upper  
83 100  
85 63.7 51.0 76.4  
127 4.4 6.2 9.2#

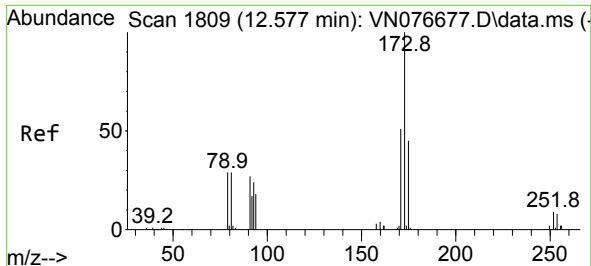


#51  
Ethyl methacrylate  
Concen: 0.223 ug/l  
RT: 10.589 min Scan# 1471  
Delta R.T. -0.282 min  
Lab File: VN076694.D  
Acq: 15 Feb 2023 18:52

Tgt Ion: 69 Resp: 1001  
Ion Ratio Lower Upper  
69 100  
41 34.5 36.3 108.7#  
39 0.0 19.9 59.7#

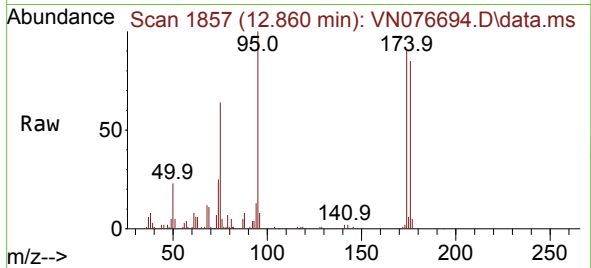




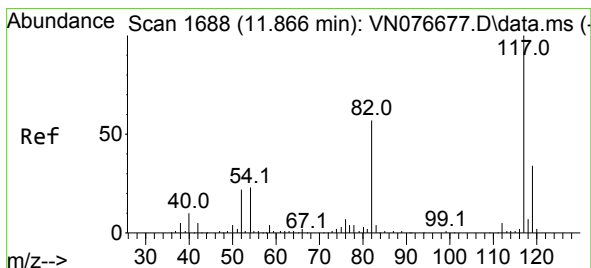
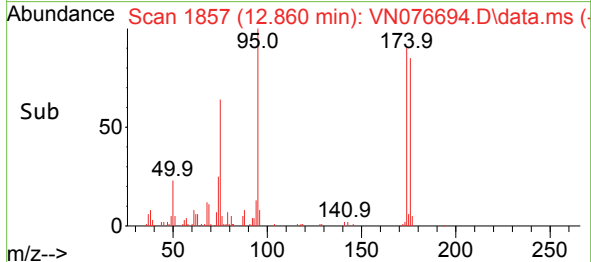
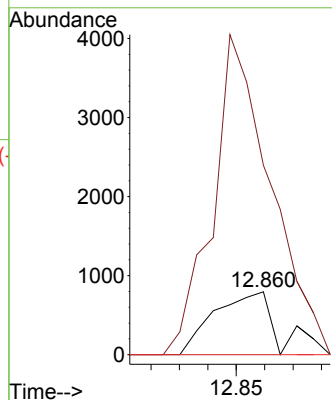


#56  
Bromoform  
Concen: 0.485 ug/l  
RT: 12.860 min Scan# 1809  
Delta R.T. 0.282 min  
Lab File: VN076694.D  
Acq: 15 Feb 2023 18:52

Instrument :  
MSVOA\_N  
ClientSampleId :

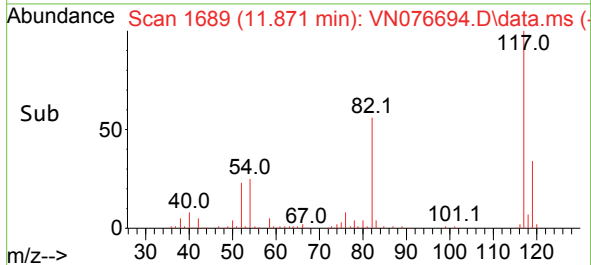
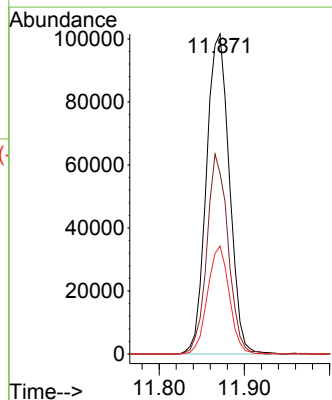
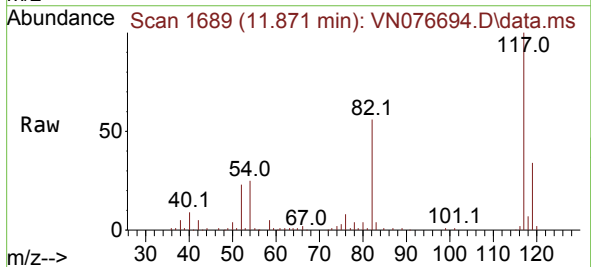


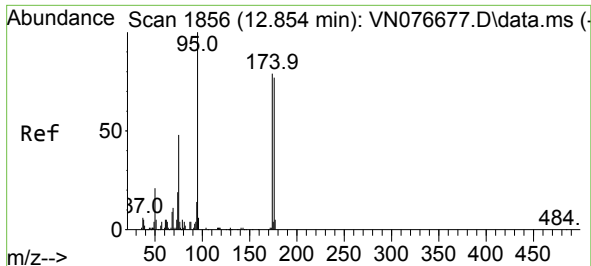
Tgt Ion:173 Resp: 1063  
Ion Ratio Lower Upper  
173 100  
175 538.4 37.8 56.6#  
254 0.0 7.3 10.9#



#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.871 min Scan# 1689  
Delta R.T. 0.006 min  
Lab File: VN076694.D  
Acq: 15 Feb 2023 18:52

Tgt Ion:117 Resp: 190037  
Ion Ratio Lower Upper  
117 100  
82 57.8 45.4 68.0  
119 31.9 26.8 40.2

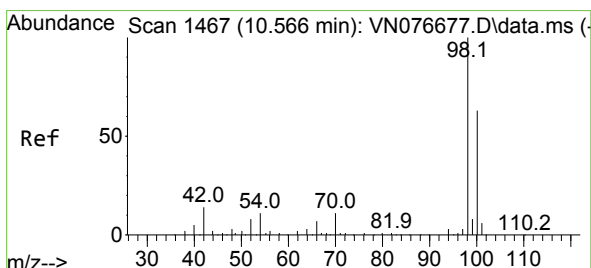
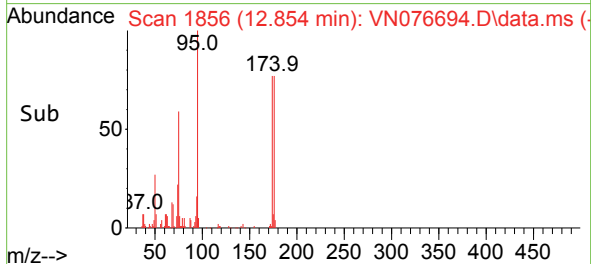
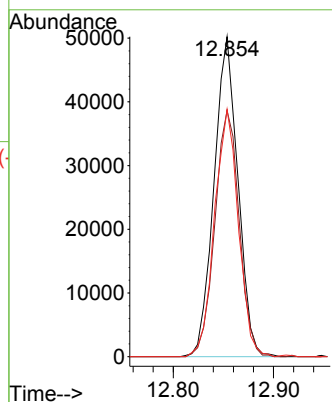
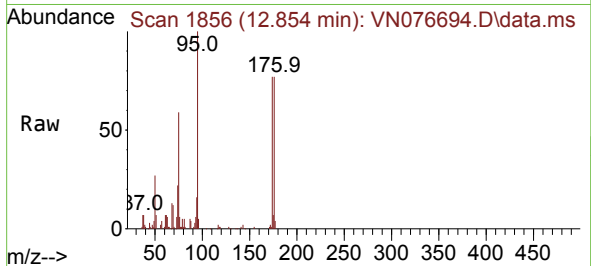




#60  
4-Bromofluorobenzene  
Concen: 24.739 ug/l  
RT: 12.854 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN076694.D  
Acq: 15 Feb 2023 18:52

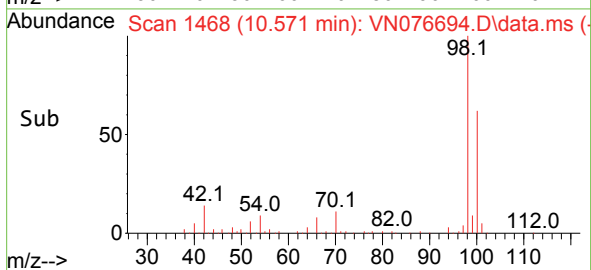
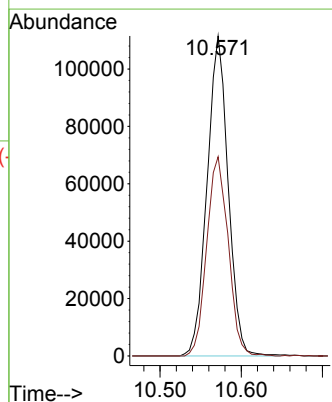
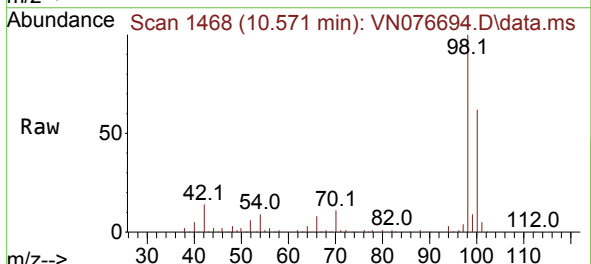
Instrument :  
MSVOA\_N  
ClientSampleId :

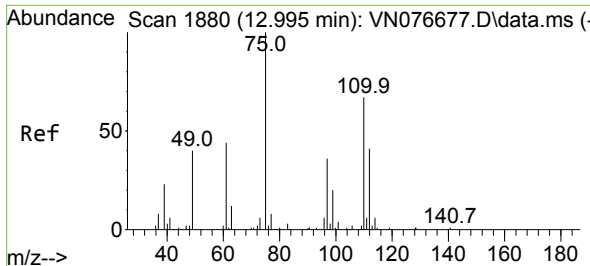
Tgt Ion: 95 Resp: 83157  
Ion Ratio Lower Upper  
95 100  
174 78.1 64.2 96.4  
176 77.1 61.4 92.0



#63  
Toluene-d8  
Concen: 30.274 ug/l  
RT: 10.571 min Scan# 1468  
Delta R.T. 0.006 min  
Lab File: VN076694.D  
Acq: 15 Feb 2023 18:52

Tgt Ion: 98 Resp: 201514  
Ion Ratio Lower Upper  
98 100  
100 63.1 53.8 80.6

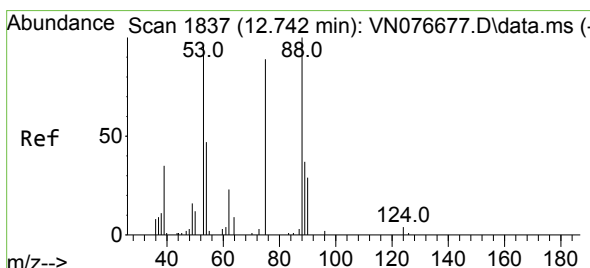
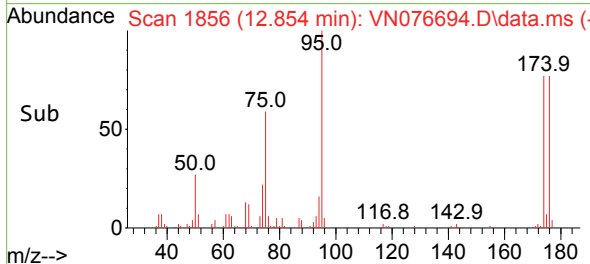
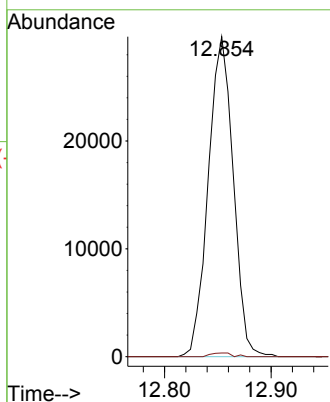
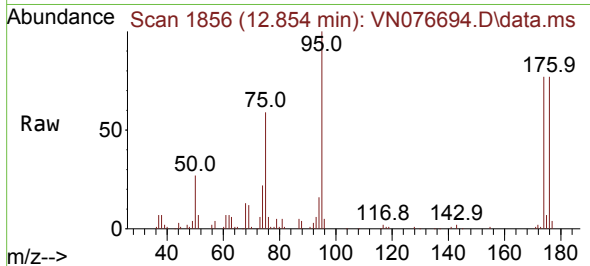




#72  
 1,2,3-Trichloropropane  
 Concen: 12.106 ug/l  
 RT: 12.854 min Scan# 1856  
 Delta R.T. -0.141 min  
 Lab File: VN076694.D  
 Acq: 15 Feb 2023 18:52

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Tgt Ion: 75 Resp: 48427  
 Ion Ratio Lower Upper  
 75 100  
 77 0.9 0.0 332.6



#77  
 t-1,4-Dichloro-2-butene  
 Concen: 37.678 ug/l  
 RT: 12.854 min Scan# 1856  
 Delta R.T. 0.112 min  
 Lab File: VN076694.D  
 Acq: 15 Feb 2023 18:52

Tgt Ion: 75 Resp: 48427  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 50.4 151.3#  
 89 0.0 22.1 66.5#

